



# GEORGE AFB CALIFORNIA

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## ADMINISTRATIVE RECORD COVER SHEET

AR File Number 1235

GEORGE AIR FORCE BASE  
OU-1 AND RPM MEETING  
IT CORPORATION

Tuesday, February 24, 1998

9:14 a.m. to 10:54 a.m.

Held at: George Air Force Base  
Department of the Air Force  
AFBCA/DD Building 321  
13436 Sabre Boulevard  
Victorville, California 92394

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ATTENDEES**RECEIVED**  
MAR 17 1998

Robert Butler

Juan Jimenez

Jay Cass

Stephen Niou

James Chang

Harold Reid

Calvin Cox

Catherine Ryan

Alan Driscoll

Joe Urrutia

Rene Hefner

Cam Winey

Via telephone: Bob Sommer

George Air Force Base

OU-1 and RPM Meeting

Tuesday, February 24th, 1998

9:14 a.m.

MR. REID: What do you want to talk about?

MR. SOMMER: A good item here. I'm sitting here with absolutely nothing except a spiral pad. I apologize for this, guys.

MR. CASS: Bob, this is Jay. Just to get started, I will take the agenda we had yesterday. I'll take the easy one first. That would be UST Case Closure, letter for the BX Service Station. Did you get that, Bob?

MR. SOMMER: Yes.

MR. CASS: You did? Okay. That's good. The reason I wanted to bring it up because it was signed and sent out of Lake Tahoe office on the 31st of December, last year, undated. So what I'd like you to do is get that letter --

MR. SOMMER: Okay.

MR. CASS: -- and stamp on the December 31st, 1997, and then we're good.

MR. SOMMER: Harold, you are -- you -- would you have Glyn pull that letter?

MR. REID: Okay. Okay.

1 MR. SOMMER: And it just came in.

2 MR. REID: Is it on your desk, Bob?

3 MR. SOMMER: No. It would have gone over to Glyn.

4 MR. REID: And what was the date on that?

5 MR. CASS: It was undated. It was signed.

6 MR. REID: From you?

7 MR. CASS: From Bob Dodds in our Lake Tahoe office  
8 to Case Closure BX Service Station. And it was  
9 actually signed on December 31st, last year.

10 So I'm just asking you to pull the copy and  
11 make sure that it's dated with the right dates. So in  
12 the future it's clear it's a mistake on our part.

13 MR. REID: I'll have Glyn pull it.

14 MR. SOMMER: Okay. You dated your copies?

15 MR. CASS: Yes.

16 MR. SOMMER: Okay.

17 MR. CASS: Okay. That's that item. The other  
18 item, the next item I want to talk about briefly is  
19 DSMOA, Appendix F. Bob, it is still sitting here in  
20 front of Harold. So I was going to ask if it's okay  
21 with the RPMs -- actually, James doesn't have to sign  
22 it. He's welcome to. You looked it over. Bob, if you  
23 could authorize maybe someone here to sign it for you?

24 MR. SOMMER: I don't have a problem. Have Glyn  
25 put it on the computer. And should that be a Air Force

1 letterhead?

2 MR. JIMENEZ: No.

3 MR. CASS: No. Just somebody needs to sign it.

4 MR. REID: We have the letter here. Jay is  
5 signing it now.

6 MR. SOMMER: Harold, you can sign for me. You can  
7 sign for you.

8 MR. CASS: We'll leave a copy here, Bob, so you'll  
9 have a copy on your desk.

10 MR. SOMMER: All right. Thanks.

11 MR. CASS: You got the fax, I take it, on E-mails  
12 that were exchanged between myself and State Board?

13 MR. SOMMER: You know, I had, and, Jay -- and I  
14 have not had a chance to read them. I've been in and  
15 out of meetings.

16 MR. CASS: That's okay. I just want to make sure  
17 you have the information State Board is really  
18 sensitive that fact that DOD sometimes take exception  
19 to the amount of oversight work that was needed.

20 So just in terms of semantics, they  
21 wanted -- I think on the Appendix E. Right. That's  
22 the first ones we did. We had a little sentence that  
23 said, Level 6 effort compared to last year, more or  
24 less and --

25 MR. SOMMER: Right.

1 MR. CASS: And State Board was just telling me  
2 how -- you be careful how you say that. The DOD folks  
3 take exception to how much they need to do. Just like  
4 we make exception to how much oversight is required.  
5 And I said I'll tell you. So that's what that fax was  
6 for.

7 MR. SOMMER: I have to admit that I'm not on DSMOA  
8 as much as I should be. With Bill not authorizing me  
9 going to the meeting this year have made it especially  
10 difficult. Yeah, I do understand that they are  
11 sensitive. And I don't see any problem with what we've  
12 done. We are making the best guess we can.

13 We still have a lot of the trace area and  
14 issues to cover in OU-2. So I think we're about  
15 as -- as best guess as we can.

16 MR. CASS: Okay. That one is done. Just for your  
17 benefit, Bob, do you want to do an introduction to see  
18 who's here? I don't know if we did that yet.

19 MR. SOMMER: Not really. Do we have everybody  
20 there with exception of Rick and Larry Tyner; right?

21 MR. REID: No. He's not here.

22 MR. URRUTIA: Cam is here. He's --

23 MR. SOMMER: Not much to cover in the OU-3, I  
24 hope. The draft final ROD is on the -- my desk. It  
25 was issued on 19 February. I believe it was 19

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1 February. I don't have anything in front of me right  
2 now. So it would go final on the 21st of March unless  
3 for the agencies, or all of the agencies, any number of  
4 agencies dispute it. I think we're in pretty good  
5 shape. I think we've included everything that we could  
6 that we received comments or chatted about or most  
7 anything else Cam has incorporated into the document.

8 MR. CASS: What do you except for signature  
9 process on that document, because the cover letter said  
10 that signature pages are being routed through the Air  
11 Force?

12 MR. SOMMER: Yeah. What we'll do is -- obviously,  
13 we're not going to dispute it. So I'll go ahead and  
14 route the signature pages up to Washington.

15 MR. BUTLER: I believe the last time I talked to  
16 Dale Jackson about it, I think he was -- I don't think  
17 he was going to sign it. He won't need to sign it.  
18 And he was going to go ahead and have the direct -- but  
19 Mr. Lowas has had a heart attack. I don't know exactly  
20 who's going to sign it, but I thought it will be Joyce  
21 Frank. Joyce Frank is the acting director now.

22 MR. SOMMER: I didn't hear that.

23 MR. BUTLER: Joyce Frank is acting director.  
24 We've put her on the signature page now.

25 MR. SOMMER: Okay. So we'll make sure that's the

1 direction they want to go. I guess that's your call;  
2 isn't it, Bob?

3 MR. BUTLER: That was given to me.

4 MR. SOMMER: Okay. So Joyce will. And  
5 we'll -- we'll route that out to her. And when the 30  
6 days are gone after March 31st, she'll probably sign as  
7 of March 31st. And we'll route it on to the next  
8 group. My thinking is the appropriate --

9 MR. JIMENEZ: Send it to EPA after --

10 MR. SOMMER: Send it to the EPA first?

11 MR. JIMENEZ: -- after Miss Frank signs it.

12 MR. SOMMER: CAL EPA?

13 MR. JIMENEZ: Send it to my department or Water  
14 Board. It doesn't matter after EPA signs it.

15 MR. REID: EPA, and then to you?

16 MR. JIMENEZ: Uh-huh.

17 MR. SOMMER: I know there's been reorganization in  
18 California, but because your signatory is the State  
19 DTSC and Water Boards, both signatory to the FFA, I  
20 think that both signatures blocks will be on there.

21 MR. JIMENEZ: Yes. For us it's John Scandura.  
22 Did you say that lady will sign it on the 1st of March?

23 MR. SOMMER: I believe that will be the case. I  
24 can't guarantee that's when she will put the pen to  
25 paper. That would be my target date, that that would

1 be the date that the document goes final.

2 MR. URRUTIA: 31st.

3 MR. BUTLER: That Denny Paskin that signs for EPA,  
4 but who signs for EPA?

5 MR. CHANG: I already gave them the name. I think  
6 Cam already updated that, Dana Paulski.

7 MR. BUTLER: Okay.

8 MR. CASS: I think I have regional boards, Harold.

9 MR. WINEY: I don't recall, but whoever's been on  
10 it. And I change it according to the EPA. I think  
11 Juan requested changing the names. I've changed it to  
12 whoever I was asked to change it to.

13 MR. REID: Okay for signatures?

14 MR. SOMMER: Then when it gets back to us, we'll  
15 make copies and send it out to everybody who receives  
16 documents.

17 MR. CASS: So is there going to be just one wet  
18 signature page that is going to be routed?

19 MR. SOMMER: Should be.

20 MR. JIMENEZ: It makes sense to have for once.

21 MR. SOMMER: That was very confusing, too.

22 MR. CASS: Yes, I know.

23 MR. SOMMER: I want to do it all on single  
24 original and give copies as it goes along. And then  
25 when it's final, when we have all four signatures,

1 we'll send the copies out with signatures on it. And  
2 the original will be held AWTAR.

3 MR. CHANG: So, Bob, are you going to track  
4 signature once you guys are done? Whoever signs for  
5 the Air Force, you're going to voice mail to give the  
6 heads up to look for the magic signature page that is  
7 coming?

8 MR. BUTLER: When we get it signed, I'll give you  
9 a call.

10 MR. CHANG: Otherwise it might get lost in the  
11 mail system.

12 MR. BUTLER: I'll make sure you know it's on your  
13 way. We'll Fed Ex it to you.

14 MR. SOMMER: That covers OU-3. Some of the  
15 things -- I wanted to talk about OU-2. What's next on  
16 the -- on the agenda?

17 MR. CASS: That's next on the agenda. I had two  
18 other things just to brief to you or to add to the  
19 agenda, but OU-2 is next on the agenda.

20 MR. SOMMER: You don't have Tyner there?

21 MR. CASS: Not yet.

22 MR. JIMENEZ: He may not be able to make it, Bob,  
23 since the Cajon Pass is closed until they scrape it  
24 or --

25 MR. SOMMER: I understand they had it going one

1 way. Obviously, they do open --

2 MR. REID: Apparently he called. He's not coming.

3 MR. SOMMER: Okay. He's not going to be able to  
4 do it.

5 MR. REID: Right.

6 MR. SOMMER: Well, we can cover a few things that  
7 I wanted to talk about. I had a list in my file, but  
8 I've got a load of correspondence on OU-2 that I wanted  
9 to review with you guys to see what really requires  
10 hard copy. It seems we live in a pretty dynamic world.  
11 I think this is off of the top of my mind. One is,  
12 Jay, we had discussed doing a sample of or for MTBE.

13 MR. CASS: Yes.

14 MR. SOMMER: Okay. Do we have any monitoring  
15 wells around the BX Service Station? Well, let me ask  
16 this question. To me, the BX Service Station would be  
17 the appropriate place to take the sample; however, what  
18 do you think? Where --

19 MR. CASS: Don't worry about the silence for a  
20 minute, I'm going to look at the map here. Okay.  
21 There are no good wells seated around the BX Service  
22 Station. That was the problem right here. And down  
23 gradient is these two wells.

24 MR. SOMMER: Given the properties of MTBE, about  
25 anything closest down gradient would be affected by

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1 now.

2 MR. CASS: Well, that would be NZ-68 or NZ-69 by  
3 LF-12 by FT-20. That's a possibility. Or one I  
4 forget, I don't think it's on here. There's  
5 a -- there's an OU-2 well -- isn't there -- right here  
6 by NZ-34? Is it NZ-30? It isn't like a 93, MW-93  
7 something like that.

8 MR. JIMENEZ: Bob, at one time we discussed in  
9 lieu of putting in wells doing a hydropunch. Can you  
10 at the same time that you do the hydropunch samples for  
11 other OUs take one of those samples next, near the BX  
12 Service Station? If you're going to have it come out  
13 anyway, just wrap it into the contract. You might want  
14 to consider that.

15 MR. CASS: For wells I would look at the map. But  
16 I would select maybe one well somewhat down gradient of  
17 BX Service Station even though it may be a dually  
18 situated and sample for MTBE. And also select one more  
19 well downgrade of the former vehicle-maintenance area  
20 where you had USTs as well as -- I don't think there  
21 was a release, but it was soil release -- but that  
22 there is a good down gradient well there.

23 MR. SOMMER: Well, MW-49 series you know that  
24 grouped over there would be --

25 MR. CASS: Exactly.

1 MR. SOMMER: -- be good.

2 MR. CASS: One of those wells might be a good  
3 well. Then we also agreed to have a well or two in the  
4 OU-1 area sampled for perchlorate.

5 MR. JIMENEZ: In which area?

6 MR. CASS: I would say OU-1, because that's at a  
7 farthest down gradient. Any potential receptors would  
8 be along the river. We wanted to say we don't have a  
9 problem here. So I would recommend one of the -- one  
10 of the wells at the leading edge of the OU-1 plume.

11 I have a plume map here, but I would, you  
12 know, during the April sampling event we should be able  
13 to select the well and get a perchlorate sample.

14 MR. SOMMER: Talking about leading edge down by  
15 17?

16 MR. CASS: Yeah, I think so.

17 MR. SOMMER: Okay.

18 MS. RYAN: You want to drop in the lower aquifer?

19 MR. CASS: Yeah.

20 MR. JIMENEZ: Lower aquifer.

21 MR. CASS: My only requests are that perchlorate  
22 issue has come in the Sacramento area, and it come up  
23 in the Las Vegas area, and I think even in San  
24 Bernardino area; there's a problem.

25 We didn't expect a problem here, because it

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1 was primarily associated with rocket propellant  
2 activities. And I don't think we had anything like  
3 that here. But the question was raised to us through  
4 one of the newspapers or water agencies, I forget  
5 which. So I thought it would be good to have someone  
6 say, yes, we have sampled for it. And --

7 MR. SOMMER: Does anybody know what the cost for  
8 perchlorate is?

9 MR. CASS: It's fairly -- it's an inorganic. And  
10 it moves like salt, like TDS would move, chloride would  
11 move in aquifer.

12 MR. SOMMER: Right.

13 MR. CASS: What's -- the causes aren't a  
14 propellant.

15 MR. SOMMER: Cost. Cost. The cost for analysis.  
16 It does require a special analyses. I would just be  
17 guessing 200, 250.

18 MR. HEFNER: Yeah, about. That would be a rough.

19 MR. CASS: We're guessing about 250.

20 MR. SOMMER: Okay. Yeah. It's not like chasing  
21 pherons or something. Okay. So I don't have a problem  
22 with that. There's never been a history of propellant  
23 being used at George so --

24 MR. CHANG: And, Jay, there was another chemical  
25 that I don't know if you were already aware of. It's

1 EDB. They found that at Hickam Air Force Base. I  
2 believe that was one of the phases after gas additive.  
3 It's a fumigant. Maybe that is another concern that we  
4 need to go ahead and take the opportunity to look at  
5 while we're out there sampling.

6 MR. CASS: So you might expect that in OU-2 area?

7 MR. BUTLER: Wasn't that diesel additive.

8 MR. CHANG: I'm not sure it's -- after gas  
9 additive.

10 MR. REID: EDB?

11 MR. CHANG: EDB.

12 MR. CASS: It's ethyldibromide.

13 MR. SOMMER: Before we go testing for everything  
14 under the sun, see what the -- what the add was used  
15 for. Sometimes when you have real humid areas, you  
16 have different additives than you do -- I know we did  
17 things, additives in fuels around the Pacific in the  
18 ocean areas that you don't use inland. I mean if  
19 it's -- if it's not something that like we would  
20 suspect being in fuel, I just --

21 MR. CHANG: They did find --

22 MR. SOMMER: Going out testing for anything we  
23 possibly think of.

24 MR. CHANG: And I also heard they found it at  
25 another East Coast base, but I can't think of the name

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1 of the facility right now. There's about two  
2 facilities, one at Hickam Air Force Base and another on  
3 the East Coast.

4 MR. CASS: Could we have an action item, maybe  
5 have IT look into the possibility for use, look at  
6 their data, maybe have some chromatograms? Would you  
7 find that 8260 Analysis or would that require like  
8 8270? Does anyone know?

9 MR. JIMENEZ: Let's just have IT look at it.

10 MR. SOMMER: Cath, are you here?

11 MS. RYAN: I'm here.

12 MR. SOMMER: You were talking with a guy that was  
13 very knowledgeable on fuels at one time.

14 MS. RYAN: Yes. Down in LA.

15 MR. SOMMER: Would you chat with him and see what  
16 this stuff is used for, whether we would expect it  
17 would be in anything we would have used? And if so, in  
18 what quantities and how we test for it.

19 MS. RYAN: Okay.

20 MR. JIMENEZ: I think that's about all we can talk  
21 about without IT present.

22 MR. SOMMER: That's really kind of tough.

23 MR. JIMENEZ: Just a minute. Jay might have some  
24 more things. Okay. That's it for OU-2, Bob.

25 MR. CASS: Maybe we'll think of something more as

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1 we go. I just wanted to check with you, Bob, and see  
2 where you stand. These are the things that we had  
3 discussed last year at some length. One of them being  
4 the well-abandonment plan that Montgomery had worked up  
5 the draft. And we had some comments and back and  
6 forth. I just wanted to see where you stand with that.

7 MR. SOMMER: Do we have everybody's comments in on  
8 that?

9 MR. WINEY: Well, we received comments on the  
10 plan. And then we went to finalize the plan. And then  
11 that's when the regional Board brought up the issue  
12 of -- well, they had reviewed the plan, but they hadn't  
13 really necessarily bought off on the list of wells. So  
14 we received a subsequent set of comments with some  
15 suggestions about change, that list of wells. And  
16 that's where we stand.

17 Right now we need to get everybody's buy off  
18 on what wells we're going to abandon. Well, there  
19 seems to be uncertainty which ones should be abandoned  
20 and which ones shouldn't.

21 MR. CASS: Can that be like a separate list that  
22 is attached to the plan or amended or appended in the  
23 plan so that plan, you know, really stands on its own?  
24 And then as we go through the whole process for base  
25 closeout, we just identify; okay, we're ready to close

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1 out this set of wells or that set of wells using the  
2 plan as already approved document.

3 MR. WINEY: Well, that's not the way the plan was  
4 originally intended. The plan was originally intended  
5 to present that first list of wells and then other  
6 lists of wells would be agreed upon by the RPMs. So I  
7 originally presented the 13 wells. And we're just  
8 awaiting a decision on whether those are the wells or  
9 whether we're going to amend that list in some fashion.

10 MR. JIMENEZ: Would it make sense since we're  
11 going to go through base closure to have a stand-alone  
12 closure plan that we can attach lists as we need to; is  
13 that what you're thinking?

14 MR. CASS: That's what I was thinking when we  
15 review the document. It makes sense. You know, it's  
16 really up to the Air Force what you want to do.

17 MR. SOMMER: I like the idea of having one that we  
18 can just run with; however, sounds like Cam is saying  
19 it's -- this wouldn't lend itself well to that.

20 MR. WINEY: Well, the document basically says  
21 that -- I don't have it in front of me, but it  
22 basically says that we will comply with California Well  
23 Driller's Manual. That's what it refers to. That the  
24 document that will be used will be followed to abandon  
25 these wells.

1 Now, the list -- the list of 13 wells are  
2 the -- basically, I believe they are all four-inch PVC  
3 monitoring wells. Now, I know there's also been some  
4 discussion of some of these larger casing wells. And  
5 that is -- from an abandonment standpoint -- is a much  
6 more complicated issue. The four-inch PVC wells were  
7 basically grouting. You have the whole -- it's a very  
8 basic problem.

9 I guess what I'm going from, this plan is  
10 going to get into very detailed explanations of how the  
11 base plan on abandoning a 12-inch diameter steel casing  
12 well hundreds, perhaps thousands, of feet down. The  
13 current plan does not have the kind of detail. It  
14 simply refers to California Well Driller's Handbook.

15 MR. CASS: That one well you're referring one  
16 about, OT-51.

17 MR. WINEY: That's one of the wells.

18 MR. CASS: That's a couple to the north. The well  
19 and the others you would want to do at the same time.  
20 Basically, what would you see for that, then, after the  
21 ROD? After the OU-3 ROD is signed, how do you see this  
22 working? Because I think one of requirements of ROD --  
23 right -- is that that one well be abandoned as part of  
24 OT-51.

25 MR. WINEY: That's correct. That will be in the

1 ROD.

2 MR. CASS: Would you do a separate RD/RA plan?  
3 What's the next ROD step after the RD?

4 MR. JIMENEZ: RD, it's hard to do in this case  
5 since we're done with most of the work. But that's  
6 what normally follows.

7 MR. SOMMER: This current plan -- I thought that  
8 well was in there, Cam.

9 MR. WINEY: No. The current plan just has 13  
10 monitoring wells in it. Now, the ROD says that that  
11 well down gradient of OT-51 will be abandoned. But it  
12 was not on the initial list of wells in the well  
13 abandonment plan.

14 MR. SOMMER: I think we still have the chicken  
15 wells up north; right?

16 MR. WINEY: Yes.

17 MR. SOMMER: The whole idea of this abandoning  
18 program for round was to get rid of three chicken  
19 wells, the old steel case things, and some old  
20 monitoring wells. It seems like we missed the target.

21 MR. CASS: Yeah. Because I don't think those  
22 wells --

23 MR. JIMENEZ: Wells are not included. Why don't  
24 we go ahead and include and make it a stand-alone  
25 document that we can attach a list to?

1 MR. CASS: And we'll also address the OU-3 ROD  
2 requirement which you will have to do anyway.

3 MR. JIMENEZ: And you won't stop to generate  
4 anymore. This time use it again, again, again. Might  
5 be your most effective and the cost a little more up  
6 front. And you don't have to worry about and neither  
7 does John Satrom when he steps forward.

8 MR. SOMMER: I -- I need to see how far we have to  
9 contract. If we burn up all the money in writing  
10 documents, then we don't get wells abandoned. The  
11 whole idea to abandon wells -- let me get with the  
12 Montgomery folks to see how to do this. I was -- I  
13 don't know why I picked it up. I read the document,  
14 too. And I was thinking that we were pulling those old  
15 steel-case wells out with this. And that's what I  
16 wanted to do. We'll get back with them. We'll lay on  
17 that one.

18 MR. CASS: Maybe just add it to next agenda item.  
19 Bring -- the second thing I just wanted to check with  
20 you, Bob, is see the work plan for Dieldrin  
21 Investigation.

22 MR. SOMMER: That's what I want to talk to you  
23 about. We had talked to you about -- we really  
24 didn't -- we talked about going up to the housing and  
25 poking a couple of holes. We never really got it

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1 defined what we want to do. Do you have any ideas, or  
2 you just open to suggestions?

3 MR. CASS: Well, it's been a little while. The  
4 day that you, myself, and -- and was it Juan -- walked  
5 up in the housing, I thought we had basically scoped  
6 out what made sense, too. And I honestly forget the  
7 details of that reconstruct.

8 MR. SOMMER: I think that I was trying to avoid  
9 just saying I plain forgot.

10 MR. CASS: I don't recall. It seemed like there  
11 was three bores.

12 MR. SOMMER: He thinks what is three bores?

13 MR. CASS: On the housing and one down in this  
14 sump or --

15 MR. JIMENEZ: The low area.

16 MR. HEFNER: How deep are you all going?

17 MR. CASS: How deep are we going? I don't know.  
18 What, 25 feet or something?

19 MR. JIMENEZ: I don't remember that.

20 MR. SOMMER: Want to pull samples in, like, if I  
21 have 20 and 25 something?

22 MR. CASS: Well --

23 MR. JIMENEZ: I think we didn't go that many feet,  
24 the first five, six feet.

25 MR. CASS: The question was how to get the

1 groundwater to stay in the top six inches.

2 MR. JIMENEZ: Hey, that's right. And that's a  
3 different issue. There's two issues. One, how to get  
4 to the groundwater. And, two, how much of it is still  
5 around since it was used across every foundation. It  
6 was the foundation.

7 MR. CASS: So -- so it sounds like maybe selected  
8 deeper borings just to get a different gradient.

9 MR. JIMENEZ: I think what you find if you do  
10 three deep borings, there are two gradients. It  
11 doesn't travel that far and kind of long chain, and  
12 it's still sitting there on a surface, the first six  
13 inches.

14 MR. SOMMER: That's why we kind of talked about  
15 one debris basin sop.

16 MR. JIMENEZ: That's where it should have  
17 accumulate.

18 MR. SOMMER: Probably would have been the most  
19 likely spot is the closest to groundwater and would  
20 have received enough runoff to provide a vehicle  
21 to -- to introduce the stuff. I think that would be  
22 the most likely area to pull up deep bores.

23 MR. JIMENEZ: I think so. The basin on this side  
24 of the new road that they were constructing when you  
25 were going out there?

1 MR. CASS: On the east side of the new road --

2 MR. SOMMER: On the east side of the new road.

3 MR. CASS: -- and then up to base housing? We  
4 talked about two, I think maybe some shallow as well.

5 MR. JIMENEZ: Yes. The objectives -- we didn't  
6 tell him how many.

7 MR. CASS: That's what I was really trying to see  
8 the schedule for that.

9 MR. HEFNER: Jay, can I see that letter? Is that  
10 the letter? Can I look at that?

11 MR. CASS: And I think the letter spells out in  
12 pretty good detail our expectations on the --

13 MR. JIMENEZ: Right. I think that simple plan to  
14 address both issues that's -- this is significant and  
15 defendable. So that we can get it over with is all it  
16 takes.

17 MR. CASS: That's probably good though to keep in  
18 mind just the two objectives that --, I'll be honest  
19 with you, I haven't really talked about the groundwater  
20 guide. One would be how to get the groundwater and  
21 such that it still remains. And, two, what is  
22 remaining in surface soil that might be future health  
23 risk.

24 MR. JIMENEZ: It will become a problem as soon as  
25 you tear down the buildings to reuse it. We asked Mr.

1 Smith back in Washington. And he kind of brushed it  
2 off as an issue he was aware of, but he hasn't had  
3 resolution on it. If you find resolution -- I'm  
4 talking about Butler, because he's closest to Mr.  
5 Smith -- and he can get back to us.

6 MR. URRUTIA: You're talking about John Smith?

7 MR. JIMENEZ: Uh-huh.

8 MR. SOMMER: I think the question is: Okay. If  
9 we find it in soil and housing, what do you do with it?

10 MR. JIMENEZ: That is what Mr. Smith is going to  
11 tell us. It's going to be a program issue that could  
12 potentially cost lots and lots of money.

13 MR. SOMMER: I've known John Smith many years, and  
14 I know that John Smith does not have an answer to this  
15 question.

16 MR. JIMENEZ: He was diligently looking for it.

17 MR. SOMMER: He would be looking at hits, what  
18 can't you do. Let's think about it logically. What  
19 can be done? What could be done?

20 MR. JIMENEZ: I am assuming you left the building  
21 and make sure they stay up there forever. It's  
22 covered. If you took the buildings down, you know how  
23 they risk pathway complete exposure.

24 MR. SOMMER: We know the buildings were not going  
25 to stand forever. They are falling apart now.

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1 MR. JIMENEZ: I didn't want to get into that now.

2 MR. SOMMER: Any reasonable use -- they are going  
3 to have to come down. They will either come down by  
4 mechanical means, or they'll fall in on their own over  
5 a period of time at which time the County will get  
6 pretty upset about the --

7 MR. JIMENEZ: The mess. But by then you should  
8 have given it to VVEDA.

9 MR. SOMMER: Pardon?

10 MR. JIMENEZ: Well, by then you should have given  
11 it to VVEDA.

12 MR. SOMMER: Except for environmental concerns.

13 MR. URRUTIA: So that is not going to be an  
14 obstruction in our transferring the property?

15 MR. JIMENEZ: I didn't say that.

16 MR. URRUTIA: Oh.

17 MR. JIMENEZ: This is an issue that has not been  
18 resolved. Bob, this issue, I can't resolve it. I  
19 mean, I could tell you what I would do. You clean it  
20 up. It's a risk, and we risk.

21 MR. SOMMER: How do you clean it up? That's my  
22 question.

23 MR. JIMENEZ: Scrape it. It's six inches.

24 MR. CASS: I -- I would even going -- let's find  
25 out what is there, and then we can discuss operations.

1 MR. JIMENEZ: That's a good idea.

2 MR. CASS: So I guess my initial question is just  
3 what is the Air Force stand on your guys' work plan?

4 MR. SOMMER: I've got to get back with Kandi, I  
5 think. I don't know where we've had -- she has been  
6 down. I don't know exactly how far we've gotten with  
7 it. I know we're looking at how the funding is.

8 MR. JIMENEZ: If you have any precedent where the  
9 EPA or states decided it was not a problem or they  
10 decided it was a problem, that's a good place to start,  
11 Bob. You have Air Force bases all over the country and  
12 all over the world, why don't you find out what they  
13 have done?

14 MR. SOMMER: You -- I know they have. You've  
15 indicated -- you sounded as though you have some ideas.  
16 I just want to hear them.

17 MR. URRUTIA: Have you encountered them  
18 researching what's been done in other areas?

19 MR. HEFNER: Bob, this is Renee. I'll ask folks  
20 around at AFCEE and see if we can find out about this,  
21 maybe help out in any way we can.

22 MR. SOMMER: Okay. In the meantime we'll just go  
23 ahead and get the work plan together.

24 MR. URRUTIA: Juan and Jay, you haven't  
25 encountered the problem with other bases before, or

1 have you had the problem, or are most houses being  
2 utilized?

3 MR. JIMENEZ: They're maintained antiques,  
4 historical preservation sites or reutilized for housing  
5 for homeless and other things. This is a special base,  
6 because it's going to be used as an airport, commercial  
7 airport. And this land is very valuable for the  
8 tenants who will be destroyed. Which that creates the  
9 problem.

10 MR. CASS: The housing will be removed, and then  
11 you will have exposed the --

12 MR. JIMENEZ: The reuse remains a problem.

13 MR. URRUTIA: Just out of curiosity, if structures  
14 are being demolished, what do you recommend or what is  
15 in your mind? I like to hear that just -- just to kind  
16 of determine a figure, a cost.

17 MR. CASS: Before you -- before the question gets  
18 answered, going back to your original question. This  
19 is the only base that I'm aware of where they found  
20 dieldrin in the ground, which is strange because  
21 groundwater wells that are showing up 100, 120 feet  
22 deep -- and they're even -- I think there might be one  
23 base up in the San Francisco area --

24 MR. JIMENEZ: Which one?

25 MR. CASS: -- that, I think -- I don't know.

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1 Maybe Mather. And I think -- maybe you know, Cam. I  
2 think thereabouts pesticides is within the landfill,  
3 shallow groundwater.

4 MR. URRUTIA: So the housing area, you're saying  
5 spray with some kind of insecticides or pesticides. Is  
6 that how the source came about?

7 MR. JIMENEZ: Bob, do you want to explain to Joe  
8 how pesticides were used.

9 MR. SOMMER: I don't know. I've got my theories.  
10 You know it seemed reasonable back in the early days.  
11 We used to spray for pests through the foundation, when  
12 you go vertical. That's stopped. And my understanding  
13 of -- I know we didn't go do it on the George hospital.  
14 That was about the time the Corps of Engineers, I  
15 expect, gave up on spraying pesticides. I don't know  
16 exactly if it was just for hospital or all verticals.  
17 So I think it's a lot of conjecture right now. And  
18 you're right. I think Jay is right. I -- maybe we  
19 ought to go and take a look to see what we got before  
20 we decide what to do with it.

21 MR. JIMENEZ: Step back and evaluate it.

22 MR. URRUTIA: Just off the record. Once their  
23 structures are demolished, you estimate scraping six  
24 inches of soil?

25 MR. CASS: That would be one potential doing a

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1 commercial industrial building like they've already  
2 proposed and --

3 MR. URRUTIA: Say, for example, going to build a  
4 parking lot. Would you still require scraping the  
5 soil?

6 MR. BUTLER: That would depend on what  
7 characterization shows.

8 MR. JIMENEZ: Right.

9 MR. BUTLER: You couldn't make any decisions.

10 MR. JIMENEZ: But you could possibly use it in  
11 the -- encapsulate it in cement or asphalt, or put the  
12 asphalt over it.

13 MR. URRUTIA: That's good. I think it needs  
14 characterization. And once that's done --

15 MR. JIMENEZ: Then we can evaluate all the options  
16 and take the one which makes the most sense.

17 MR. BUTLER: I think all of us agree.

18 MR. URRUTIA: I think it's clean. Don't worry  
19 about it, guys.

20 MR. BUTLER: Just a matter of characterizing it,  
21 and see if we have a problem.

22 MR. JIMENEZ: Characterization that we don't have  
23 big data gaps.

24 MS. RYAN: That is the sampling that you  
25 recommended sufficient that there won't be data gaps.

1 Hey, go out and again --

2 MR. CASS: We haven't seen the proposal yet.

3 MS. RYAN: Well, you had made a proposal to us to  
4 write the work plan. That is what I was asking.

5 MR. JIMENEZ: Right.

6 MR. CASS: We didn't want to specify you needed to  
7 collect six samples. That you've seen the letter, laid  
8 out the type of information that should go in, but  
9 aside -- but specific number of sample, I leave that up  
10 to you. To really make a proposal I think you need to  
11 discuss both objectives.

12 MR. REID: So when we make up a work plan, then  
13 we'll let everybody look at it. So we'll take it a  
14 step at a time.

15 MR. JIMENEZ: Correct. Is there anything else,  
16 Jay?

17 MR. CASS: Those are the only add-on items I had.  
18 James, I know you had a couple of items. You wanted to  
19 talk about the April sampling.

20 MR. CHANG: I'm sorry. What's that?

21 MR. CASS: That was the only items I had. There  
22 are a couple items from April sampling you want to go  
23 over?

24 MR. CHANG: I wanted to go back to bring some  
25 closures on OU-1 issue. Can you hear me, Bob?

1 MR. SOMMER: Yeah.

2 MR. CHANG: First thing I want to talk about is  
3 the OU-1 O&M document. If you recall what Bob  
4 Lindfors -- was that his name? I can't remember. The  
5 guy that was at the end of the table. If you recall  
6 what Bob had said --

7 MR. REID: Bob Lindfors.

8 MR. CHANG: Lindfors. If you recall what he said  
9 yesterday when I asked him about what happened, his  
10 comment to me going to provide a comments matrix. When  
11 he said because we submitted our comments so late that  
12 it doesn't sound like anything was going to be done,  
13 but that is the wrong answer.

14 You know what I want to ensure that that O&M  
15 document is going to be relevant for the -- the OU-1  
16 system. Because if you look at the time frame of O&M  
17 document when it was developed, and it looks like time  
18 frame of that was developed over two years ago.

19 Yesterday we were only talking about Phase 2  
20 system being on-line for about four months. Normally  
21 when you -- the CERCLA process is O&M document comes  
22 after the RD/RA.

23 The bottom line is you got to make sure  
24 Montgomery Watson got O&M document that is relevant to  
25 the system.

1 MR. SOMMER: I think that's of greater benefit to  
2 the Air Force than it is to EPA, James. And I don't  
3 think we're going to let the O&M document down.  
4 However, just for a little clarification, maybe in the  
5 CERCLA process, the O&M manual, it's delivered after  
6 everything else is in place. But you can write the O&M  
7 manual. You know, you start your O&M manual; true?

8 MR. CHANG: Oh, sure you can. But it's not a  
9 problem when you write that.

10 But remember yesterday we were talking about  
11 system. We are still tweaking and the whole business.  
12 O&M system is to make sure interpret it -- the design  
13 is according, continuously like you want to.

14 So you got to give your RD a chance to work,  
15 and then you kind of update your O&M at the same time.  
16 But, you know, as far as when you start that, I'm not  
17 concerned about that.

18 MR. JIMENEZ: I think -- think the tone of  
19 response was -- was inadequate. It was a valid  
20 question that needs to have an answer. And maybe you  
21 can look into that.

22 MR. SOMMER: I think it was just to register a  
23 complaint of delays in getting that out.

24 MR. CHANG: Second thing, on the OU-1 is I  
25 gave -- I gave Rob Marinai personally some comments

1 early part of December on OU-1. I would like to have a  
2 comments response matrix of those documents. I realize  
3 we've partly covered -- several of those issues will  
4 probably be covered because of optimization that we  
5 discussed. That is fine and dandy. He can say that on  
6 response. But there are specific comments I would  
7 like. You know, there are other responses that I need  
8 an answer on so --

9 MR. SOMMER: We have developed responses. The  
10 whole idea of having the meeting was to get some  
11 clarification on the comments.

12 MR. CHANG: Well, like there's some specific  
13 comments where I put -- we had put down  
14 requesting -- and it's not the first time we've  
15 requested it. That the -- that there was some  
16 concentration overtime charts, for instance, for  
17 high-concentration wells. And so it's things like that  
18 I want to bring to a closure with -- Montgomery Watson  
19 was going to do it.

20 MR. SOMMER: The problem we have is: Have a  
21 meeting, discuss things, and tend to believe we're  
22 walking away with agreements. And a week, two weeks  
23 later I'll get a series of letters that are comments  
24 that are not what we discussed in the meetings. Then  
25 we have the question of what you sent to us in writing;

1 were they put together before the meeting and we're  
2 just getting out through the mail, or are they valid as  
3 opposed to what we discussed in the meeting? So  
4 there's no continuity between the -- that's why I've  
5 got a stack of letters in there on all three OUs about  
6 three-inches thick. Because, have they disappeared or  
7 not? Are the comments still valid? Are the written  
8 comments on, or are the comments we talked about, or  
9 issues that we discussed in the meetings valid?

10 MR. JIMENEZ: Bob?

11 MR. CASS: Bob?

12 MR. SOMMER: I don't mind answering. I just don't  
13 know exactly what I'm answering. And my consultants  
14 are in the same position, they don't know.

15 MR. CASS: Bob, this is Jay. And I think Juan has  
16 something to say, too. This is a frustration for me as  
17 well as you. And I would really appreciate we add to  
18 the agenda comments that are unresolved so -- or we  
19 have to guess.

20 Just like today we brought up these letters  
21 from last year, just so we can discuss them and get  
22 some continuity. I realize when I write a letter I'm  
23 trying to get one point across, and I understand that  
24 it may not be received the way I want it to be  
25 received.

1           So I really like to discuss what we said so  
2 we can come to an agreement what the issue is and what  
3 it requires for a resolution. For any questions you  
4 have, please add it to the agenda so we can go over it  
5 point by point.

6           MR. JIMENEZ: This is actually indicative of a  
7 problem we have in communication. If I write you a  
8 comment and you say that you notice that that comment  
9 exists but you don't address the comment and it keeps  
10 coming up, we have a problem in communication. Either  
11 I don't express myself very well, or I'm not satisfied  
12 with the answer. It will continue to come up.

13          MR. SOMMER: You express yourself, one, in the  
14 meeting and, one, on the letter; and they don't always  
15 appear to be consistent with each other.

16           For instance we talked about an NZ-80 -- of  
17 monitoring NZ-80. Because I realize the NZ will -- it  
18 does not appear to be a big problem. And about a week  
19 and a half later a letter from Jay that is talking  
20 about extraction wells, monitoring wells, and a barrage  
21 of things that completely took me aback. They were  
22 absolutely nothing we discussed in the meeting. So I  
23 don't know whether we have an agreement to monitor  
24 or -- that's pretty indicative of how the meetings go.

25           We have difficulty answering your questions,

1 because we're not always sure what they are.

2 MR. JIMENEZ: Ask me.

3 MR. CASS: Bob, are you referring to the letter  
4 that we were talking about yesterday that we never  
5 finished the OU-1 treatment system status letter, our  
6 November 25th letter? One of the items there was FT-20  
7 groundwater. As previously discussed the groundwater  
8 20 -- FT-20 maybe how the small plume is heading toward  
9 the river and would not be contained -- capturing the  
10 plume, is that the --

11 MR. JIMENEZ: He doesn't have it.

12 MR. SOMMER: And about a week and a half earlier  
13 we had sat at the meeting and discussed monitoring,  
14 just watching it to see what happened. When we looked  
15 at the original TCE and NZ-80 above MCL and M -- I  
16 forget which -- and when we redeveloped the well --

17 MR. CASS: I think at this point in this document  
18 is -- that it's to me clear that the extraction system  
19 that's in place would not capture that plume. But that  
20 was one of the points brought forward, I think,  
21 by -- by the Air Force is that the capture time, the  
22 OU-1 treatment system would capture that plume.

23 And that's what we were talking about  
24 yesterday is the level of monitoring in the lower  
25 aquifer to really justify the capture nets that are

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1 presented in the document.

2 So I think that was my point. If, in fact,  
3 you're getting capture from the extraction system,  
4 monitoring might be okay. But I don't think we can  
5 really see that. So -- so that's why I think it's good  
6 to, you know, talk about these issues rather than just  
7 let them slide.

8 So, you know, if you want to talk about that  
9 in some more detail, we can now or later; but that's  
10 good.

11 MR. SOMMER: I've got absolutely no data in front  
12 of me. I'd be sitting here babbling not saying  
13 anything.

14 MR. JIMENEZ: Let's add this to the agenda on the  
15 next meeting on the 9th.

16 MR. CHANG: Okay. I have one last issue for OU-1.  
17 And that's with the sampling round that is coming up.  
18 I want to be sure that everybody understands that we  
19 shouldn't be doing any sampling until PA has the chance  
20 to approve the SAP that is being developed.

21 Bob, I know we're going to be pretty rushed  
22 to get you to review your SAP. So that we can have a  
23 chance to review and get it back to you, can we come up  
24 with agreed upon date when sampling round is going to  
25 be occurring like maybe the last -- push it off the

1 last week of April?

2 MR. SOMMER: Well, I have an idea that it's going  
3 to be -- if you want to use this SAP, then it will be  
4 whenever the SAP is done. I don't see it  
5 happening -- you know, this is end of February. I  
6 don't see us doing the sampling round. We may just --

7 MR. CHANG: Okay.

8 MR. SOMMER: When you look at other documents  
9 we've tried to push through, you would have never been  
10 able to do it in 45 days. I don't hold much hope in it  
11 we need to agree. If we don't have the SAP down, we  
12 don't do the sampling round until we have it finished.  
13 That may put a little pressure on everybody.

14 MR. JIMENEZ: I can invite you to my office for as  
15 long as it takes to get one hammered out, tiger-team  
16 approach. It's happened eight other places I've  
17 participated in. You don't get to eat, bread and water  
18 until you are finished.

19 MR. SOMMER: We'll take a look and -- what we have  
20 is an organization putting it together, and it doesn't  
21 have a history of sampling that's been going on. So  
22 they're kind of coming from the blind.

23 MR. CASS: Are they using baseline to start the  
24 existing SAP, that IT and Montgomery have? They should  
25 have in front them, I believe, when they start.

1 MR. DRISCOLL: Yeah, Jay, we're using two sets of  
2 documents. One, the standard AFCEE documents, and also  
3 some of the historical documents from George.

4 MR. HEFNER: Jay, I don't know if you or Juan have  
5 a copy of the AFCEE field sampling plan or SAP.  
6 Basically, already documents that we've produced as  
7 generic models. So we'll go ahead and send one. Oh,  
8 as a matter of fact, you can get it down off the web  
9 site. And I'll give you the web address.

10 MR. JIMENEZ: My Internet access is not available  
11 yet.

12 MR. HEFNER: We'll send you a hard copy.

13 MR. JIMENEZ: And our programs are -- have not  
14 been linked yet, until we get moved next month.

15 MR. SOMMER: Are you guys still having the one  
16 problem I am having?

17 MR. CASS: Says everything in the world is  
18 happening on the Internet.

19 MR. HEFNER: You're losing out, Bob.

20 MR. SOMMER: That is all the information you ever  
21 need to know about EPA or State or anything else is on  
22 the Internet. Gave a bunch of addresses, that's  
23 wonderful. I'm not going to sit up at night at home.

24 MR. JIMENEZ: The DOD probably has one type base  
25 nationwide, what happened, what it did, what it cost.

1 You know, there's regional differences. It may cost  
2 more in California, but it's a good place to start.

3 MR. HEFNER: They have the field-sampling plan and  
4 QAPP has been looked at real heavy for USEPA Region 5  
5 dense in that region as far as QAPP is concerned and  
6 also the regional sampling plan. So they've taken a  
7 look at that. That region had lots of different  
8 comments and incorporated a lot of the comments in  
9 USEPA. And I'm sure you are using --

10 MR. DRISCOLL: We are. And I think that is one  
11 thing that could be done to really speed things along:  
12 The regulators familiarize themselves with standard  
13 AFCEE documents.

14 MR. REID: Louder. We can't hear you.

15 MR. DRISCOLL: I was just saying that I think it  
16 would be very helpful if the regulators could  
17 familiarize themselves with those generic AFCEE  
18 documents, because our SAP is very largely based on  
19 those.

20 MR. JIMENEZ: Alan, do you have any idea when  
21 you'll have this document available?

22 MR. DRISCOLL: Well, we submitted a preliminary  
23 draft at the end of last week to several of the Air  
24 Force people and some of the other contractors who are  
25 familiar with the base. It entirely depends on the

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1 turnaround time of the comments.

2 MR. CHANG: I think Bob said yesterday he already  
3 had it on his desk. It's a matter of him getting  
4 around to review it. It's one-inch thick. I recommend  
5 to speed this up -- and once you've reviewed it and you  
6 guys send it out for us for comments -- why don't we  
7 look at it like we were -- start like the way we work  
8 for FOST. I think it's been a very helpful for us to  
9 conference call, work the draft together to not a lot  
10 of comments -- get the issues out, returned on it. And  
11 then the letters can be taken care of later on by memo.

12 MR. JIMENEZ: You can have a dog and pony and make  
13 a presentation on the 9th or 10th of what the comments  
14 that you had and what the answers are, and if he has  
15 any questions he could ask us then. I don't know what  
16 this means, or I don't understand that, you guys are  
17 crazy. That's acceptable as long as it's true.

18 MR. CASS: You know that when we talk about  
19 meeting schedules, you know I'd suggest maybe that  
20 would be a good meeting for onboard review to try to  
21 expedite for reviewing comment.

22 And in terms of sampling schedule, even  
23 though we had talked about April -- and I'm just  
24 throwing this on the table -- if we were to slip that  
25 into May, I don't think it would be a problem because

1 we kind of selected April and September as wet season,  
2 dry season. But we know we have a wet season this  
3 year. As a matter of fact the river is running very  
4 good today, I've noticed. So we'd expect some changes  
5 in the water table and whatnot. And we'd probably even  
6 get another storm or two come through, based on weather  
7 patterns.

8 So I'm not trying to slip this schedule. But  
9 I'm saying that for our objectives of sampling, if we  
10 are getting into May, we have another month or half a  
11 month to review the SAP.

12 MR. SOMMER: I haven't seen the document, other  
13 than the cover, and I need Montgomery to look it at,  
14 and IT to look at it. And I can cause them to look at  
15 it pretty quickly. I need to take a look at it to see  
16 if it really covers George. No disrespect, Alan, and  
17 his group, but I just need to see what it's saying and  
18 if -- if it's a pretty fair draft right off the bat, I  
19 don't care, we can do an onboard.

20 If it's got some real disconnects in it, I'm  
21 going to ask them to put out another copy before it  
22 goes to the regulator only because I don't need a load  
23 of comments about, this doesn't address OU-1, it  
24 doesn't address OU-2, or whatever. We want to firm  
25 that up before we --

1 MR. DRISCOLL: Well, Bob, one thing that I can say  
2 right now, based on any conversations with Jerry  
3 Bingham, is that we built our SAP to be basewide and to  
4 be generic for base. So there is a lot of detail in  
5 there. Or -- or I should say there is not a lot of  
6 detail in there about, you know, the sites specific  
7 work.

8 MR. SOMMER: Okay. But the -- I think the point I  
9 was trying to make, your concepts of George and my  
10 concepts of George make two different things.

11 MR. DRISCOLL: I think that's likely.

12 MR. SOMMER: And I want to make sure that the  
13 document is digressable in the current form. I -- I  
14 just looking at it, and if I were writing it -- and not  
15 being familiar with the base only with -- because we've  
16 made a lot of adjustments in our SAPs that you  
17 obviously couldn't have taken into account that you  
18 just haven't been privy to it.

19 MR. DRISCOLL: Well, I definitely learned a lot  
20 yesterday that would have significantly affected the  
21 first draft of the SAP.

22 MR. SOMMER: That's why I'm really looking at the  
23 necktie guys at Montgomery and IT to help you along  
24 with that.

25 So we're just not throwing out -- I don't

1 know whether you -- you've got a great document or not.  
2 I'd like to see it before it goes to the regulators.  
3 That's all I'm saying.

4 MR. DRISCOLL: Definitely.

5 MR. SOMMER: We can turn it around pretty rapidly.  
6 If it requires a rewrite before it goes to the  
7 regulator, then it's going to take a little more time.

8 If I thought we were going to have a really  
9 neat super document right off the bat, I wouldn't have  
10 wanted to take a look at it. We would have just got it  
11 and give you guys a couple weeks to review it and do an  
12 onboard. So let's take a look at the document. And  
13 before we decide what we need to do, we'll do whatever  
14 we can to turn it out as quickly as possible.

15 I would caution us, though: I'm looking for  
16 good long-term document as opposed to something quick  
17 we can get out in the field with.

18 MR. JIMENEZ: All right.

19 MR. CHANG: Bob, on the -- so as far as the date  
20 of the sampling is concerned, that's not withheld by  
21 contract constraints is it? As far as the April time  
22 frame, that's not a magic drop-dead date for  
23 contracting?

24 MR. SOMMER: No. I think contract works around  
25 us.

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1 MR. CHANG: Okay. Okay. Before -- I like to  
2 do -- maybe I would like to propose a tentative date  
3 anyway. Because what I would like to do is send any  
4 request to the folks down here to do a field audit to  
5 make sure the document we're producing actually  
6 realistic document that actually works out in the  
7 field.

8 But because I've got to give my folks plenty  
9 of advance notice to prepare to come down here, we need  
10 to come up with some type agreement on what a tentative  
11 date would be. I suggest May time frame that Jay  
12 talked about would be good. Maybe this third week of  
13 May or April.

14 MR. CASS: Are you talking about for sampling or  
15 onboard review of the SAP?

16 MR. CHANG: For sampling.

17 MR. CASS: Okay.

18 MR. JIMENEZ: Don't you want to have a meeting?

19 MR. CHANG: Realistically we're going to have to  
20 have a working meeting to get the SAP developed in as  
21 fast a turnaround time as we want.

22 But as far as -- I got to give my folks  
23 plenty of advance notice when I want them down here.

24 MR. CASS: This is Jay. I was just looking at my  
25 calendar, that possibly the week of the 13th of April

1 might be good for technical onboard review for field  
2 sampling.

3 If we are all comfortable with the document  
4 fairly soon after that, and if there's some other  
5 changes and revisions that might require, then the  
6 field sampling might slip into the week of the 4th of  
7 May or -- or the 11th.

8 MR. JIMENEZ: You can chose any day of the week  
9 except for the 15th.

10 MR. SOMMER: We've got a draft out. Now, is that  
11 kind of pre-draft?

12 MR. CASS: Yeah.

13 MR. SOMMER: Okay. I'll have comment, Alan, by,  
14 oh, the first -- about midweek of March. So let's say  
15 about the 5th of March.

16 MR. SOMMER: Alan, if it requires a rewrite, about  
17 how long would it take you to turn that around?

18 MR. DRISCOLL: Not knowing the extensiveness, I  
19 really can't say for sure. But I'm sure we can make it  
20 happen pretty quickly, a week or so.

21 MR. URRUTIA: Two weeks?

22 MR. SOMMER: We have --

23 MR. CHANG: 19th March.

24 MR. SOMMER: You can have it back out by 19 March?

25 MR. DRISCOLL: Yes.

1 MR. SOMMER: Okay. How long do you guys need to  
2 review it before we sit down and do an onboard??

3 MR. JIMENEZ: If we get it the 19th of March?

4 MR. CASS: Two weeks. I don't know, is that at  
5 least for draft comments?

6 MR. REID: James?

7 MR. JIMENEZ: James?

8 MR. CHANG: Let's see. I'm pushing it, but 9  
9 April is probably when my quality assurance office will  
10 probably get a chance to do a thorough review of that,  
11 if I do get it by the 19th of March.

12 MR. SOMMER: I'm looking at doing an onboard, that  
13 when we leave the onboard with have a final document.

14 MR. JIMENEZ: I like that idea.

15 MR. SOMMER: We're not recreating the wheel here.  
16 Basically, you're just consolidating everything we have  
17 been doing rather than just working with a bunch them.

18 MR. CHANG: Sure.

19 MR. URRUTIA: What date for onboard review?

20 MR. CASS: They haven't decided yet.

21 MR. JIMENEZ: Now, you're talking about Palm  
22 Sunday, Easter Sunday, and Passover. And all those  
23 good things those are pretty powerful religious  
24 holidays for most people.

25 MR. CHANG: I think, realistically, the onboard

1 review is going to have to occur on week of 20th  
2 sometime.

3 MR. SOMMER: 20th of --

4 MR. CHANG: Of April.

5 MR. JIMENEZ: Why don't you do it on the 16th?  
6 Because right after that, business as usual.

7 MR. COX: James won't be --

8 MR. CHANG: I won't be here.

9 MR. JIMENEZ: Oh. Let's start early on the 20th.

10 MR. SOMMER: Can we turn around comments?

11 MR. CASS: I'm sorry. I did not hear you.

12 MR. SOMMER: The idea here is to speed things up.

13 MR. JIMENEZ: Yes. Let's go back the other way.

14 MR. CHANG: Well, I think right now we should  
15 tentatively set for the week of 20th. My request is my  
16 office is real strapped. And I'm also very busy next  
17 several months with congressional hearings. I'll try.  
18 I'll try to do it on the week of the 6th, if possible,  
19 but don't hold your breath on that.

20 MR. SOMMER: Well, we need --

21 MR. CHANG: As far as the onboard work meetings  
22 are concerned --

23 MR. SOMMER: Well, let's set a date for it we can  
24 target. If it's got to go 20th, let's go on the 20th.

25 MR. CASS: James, are you unavailable for the week

1 of 13th. I'm not available the week of the 6th.

2 MR. CHANG: 20th of April, looks like --

3 MR. CASS: Looks good.

4 MR. CHANG: You guys want to push it back?

5 MR. CASS: The 20th, Monday?

6 MR. CHANG: Let's set several dates aside. Let's  
7 set the 20, 21st, 22nd aside to make sure we have some  
8 flexibility. I've got to make sure my QAL folks can be  
9 part of the meeting.

10 MR. JIMENEZ: I'll provide the facility, the nice  
11 building in Cypress. We're moving out of the dumps.

12 MR. URRUTIA: We're having this meeting in your  
13 office, not here?

14 MR. REID: He's proposing that.

15 MR. CHANG: Yeah. That would be easier for me to  
16 meet down at Juan's place.

17 MR. JIMENEZ: Close to the airports, really easy  
18 for you to get back to the airport.

19 MR. URRUTIA: You close to this one side?

20 MR. SOMMER: I want to talk to the other people.

21 MR. REID: That's near the LAX?

22 MR. JIMENEZ: LAX and Orange County.

23 MR. CHANG: Tentatively set 20 and 21st aside.

24 MR. SOMMER: I can't commit Juan's office. I have  
25 to look at my schedule. I want to talk to the other

1 folks. I don't have a clue with what's happening with  
2 March right now.

3 MR. JIMENEZ: I can tell you. March is having a  
4 meeting. No, they're not having any meetings.

5 MR. CASS: We had meeting scheduled for March 9th.

6 MR. JIMENEZ: Norton's having a meeting on the  
7 8th.

8 MR. CASS: Why did we schedule a meeting two weeks  
9 later? Is there a reason for that?

10 MR. CHANG: That's RPM meeting.

11 MR. CASS: Two weeks now?

12 MR. REID: If we do that review, James, on the 20  
13 and 26th then the 4th would be a good tentative date  
14 for your field work, James?

15 MR. CHANG: Let's see. Well, yeah I don't see any  
16 problems if you guys can set up.

17 MS. RYAN: So two weeks is sufficient for you to  
18 get the next version out with the changes so that the  
19 people going into the field with -- the people who are  
20 going into the field need a copy of it sooner  
21 than -- so they can know what's going on. How long --

22 MR. WINEY: Well, the field people wouldn't review  
23 it. They would just need to check it, make sure they  
24 have the equipment they need. But they've done it  
25 enough. That's not going to change that much. Just a

1 couple days would be fine.

2 MR. JIMENEZ: Most of the work is done. The audit  
3 is to make sure that they are implementing.

4 MS. RYAN: Correct. But they still need to look  
5 at it and make sure that they can meet all the  
6 requirements of it.

7 MR. DRISCOLL: They need to know if there have  
8 been changes. The work that they are going to be doing  
9 right -- exactly so they're prepared. So they  
10 only -- the short time, the two weeks is sufficient is  
11 what I was trying to -- being able to get it out and  
12 the contractors ready to go into the field.

13 MR. JIMENEZ: Whatever is on it, tell them we are  
14 going to do an audit.

15 MR. REID: The 4th good, James? Is it okay with  
16 you?

17 MR. CHANG: Oh, yeah. I do need a tentative date.  
18 I need to get the field ready. Let's set it for the  
19 4th of May, that is sampling for the actual field work.

20 MR. BUTLER: That is sampling?

21 MR. SOMMER: Bob, does that give you enough  
22 turnaround time to incorporate?

23 MR. JIMENEZ: It's going to be done by the time we  
24 leave.

25 MR. SOMMER: It will be done on computer, but he's

1 got to take it back. He has to print it sometime.

2 MR. DRISCOLL: Yeah. I will need to go back and  
3 reissue the document. I mean, two weeks would be a  
4 comfortable period of time to do that. May 4th  
5 is -- is that just two weeks after?

6 MR. REID: Yes.

7 MR. NIOU: After the meeting.

8 MR. JIMENEZ: You might want to do May 6. That is  
9 two weeks.

10 MR. DRISCOLL: Yeah, I would like to have the two  
11 weeks for that. There's a good chance that I can get  
12 it done sooner than that, but at this point there's no  
13 way to anticipate how extensive the comments are going  
14 to be.

15 MR. JIMENEZ: They're going to be minor, because  
16 you're going to do a good job.

17 MR. URRUTIA: You're going to be doing a good job.

18 MR. REID: Anyway we'll set it for that week, if  
19 there's a problem later --

20 MS RYAN: That's to get did the version out to  
21 people who will be taking in the field. So when are we  
22 scheduling the field work for?

23 MR. JIMENEZ: That same two week.

24 MR. NIOU: Or the week afterwards, the 11th.

25 MR. COX: That will give you two full weeks. The

1 last week of May is cut short because of Memorial Day.

2 MR. REID: Memorial Day is the --

3 MR. COX: Last Monday in May.

4 MR. JIMENEZ: They have two weeks before Memorial  
5 Day.

6 MR. COX: Well, it will take them two weeks to  
7 sample all the wells.

8 MR. REID: So the sample on the 11th.

9 MR. CHANG: Change 11 to 22nd of May.

10 MR. REID: Is two weeks.

11 MR. CHANG: Okay.

12 MR. NIOU: Will OU-1 and OU-2 be sampling  
13 simultaneously? So the two groups, one week for IT and  
14 one week for Montgomery Watson?

15 MR. COX: Correct.

16 MS. RYAN: So we'll have to verify this with IT to  
17 make sure there's no problem with this contract,  
18 subcontractors, et cetera.

19 MR. CHANG: So -- okay. So, you guys will confirm  
20 that the next RPM meeting that these tentative dates  
21 will work?

22 MR. REID: Yes.

23 MR. CHANG: Harold, are you -- do you have that  
24 next RPM meeting coming up 9th and 10th March? Will  
25 you confirm all these dates are going to work?

1 MR. REID: Right.

2 MR. JIMENEZ: Are we meeting here again?

3 MR. CHANG: I think the RPM meeting is here.

4 MR. REID: Yes. It's going to be here.

5 MS. RYAN: My other comment, if its going to be in  
6 two weeks, I need agenda items by Friday.

7 MR. CHANG: My first agenda item is schedule of  
8 SAP.

9 MR. SOMMER: On the 9th and 10th of March -- plan  
10 to do on the 9th, have the consultants get together  
11 their standard brief OU-1, OU-2, OU-3, brief  
12 introduction. This is our chance to chat with Satrom  
13 and whatever he's going to be doing and bring him up to  
14 speed on taking over the show. And then I'd like to go  
15 through -- on the second day or the last part of the  
16 first day -- over whatever we have time to do and want  
17 to get all the comments cleared out. We have action  
18 item matrix. And we haven't looked. And we need to go  
19 through and see how much of that we can get knocked  
20 out.

21 MR. NIOU: Also one comment. I remember last time  
22 when we came here for groundwater monitoring we  
23 couldn't -- we couldn't find out where the field crews  
24 are. And I would appreciate that if some work either  
25 at the March --

1 MR. COX: Contact me.

2 MR. NIOU: Yeah, okay. Leave us a phone. Anybody  
3 or something that we can reach the person who knows  
4 where the field crews are.

5 MR. COX: Contact me. I'll take care of that.

6 MR. NIOU: Okay. Yeah.

7 MR. JIMENEZ: We'll also need to tie down dates,  
8 because if we have somebody available to do an audit,  
9 field audit in addition to EPA audit, we might want to  
10 do one in light of the things that are showing up in  
11 the report.

12 MS. RYAN: The other thing is, if you guys are  
13 going into the field we need to have Calvin, myself, or  
14 Harold also present. We need somebody from the base  
15 also present at the time, if you guys come out for  
16 audits or to -- during the sampling procedure.

17 MR. NIOU: Yes.

18 MR. COX: I just ask for a two-day advance notice  
19 so I can come up the hill. But I'll know where they  
20 are at. They give me a list where they head out, what  
21 to plan the next day.

22 MR. NIOU: To you or Bob? Who is there by  
23 contact?

24 MR. REID: You call us and tell us when you are  
25 coming, and we will tell you who will escort you.

1 MR. NIOU: Okay. Okay.

2 MR. COX: I can make arrangements to be there. I  
3 will find out where they are for that date.

4 MR. REID: Two-days' notice.

5 MR. NIOU: Okay.

6 MR. CHANG: I only have one more thing. That's  
7 the data validation. I think after we be sure that we  
8 have got a SAP, our few procedures are working, we've  
9 got a realistic SAP with field procedures. Then the  
10 data validation part aspects that will be any under QA  
11 wrap up.

12 And so, Bob, I'll have to coordinate with  
13 Montgomery Watson, or whoever is heading off the  
14 sampling effort, to get the information. I need to do  
15 a complete data evaluation.

16 We found few contamination problems with IT,  
17 but we need to do a basewide total validation this  
18 time.

19 MR. SOMMER: Okay.

20 MR. CHANG: IT submitted that report, and they had  
21 some contaminations.

22 MR. COX: What contaminations did you find?

23 MR. JIMENEZ: I believe that everything reads one  
24 comment. Now, for our agenda. You know when the next  
25 meeting is. As soon as you go back now if you have

1 specific issues, let's get them to Cathy, and they will  
2 appear in the agenda. Because I think this agenda was  
3 done late, and it's too general. And it overlooks  
4 these items. And then we can be better prepared to  
5 answer those problems if we have the specification  
6 letters or comments that we haven't responded to. Give  
7 us all those so that we can get them in the agenda,  
8 too, and I think we can do a better job.

9 MR. JIMENEZ: By Friday the 20th close of  
10 business.

11 MR. REID: Bob, do you want me to run briefly over  
12 the FOST?

13 MR. SOMMER: Over the FOST?

14 MR. REID: FOST. FOST schedule.

15 MR. SOMMER: Yeah.

16 MR. JIMENEZ: Yes.

17 MR. REID: Okay. The first item was the railroad  
18 right of way. And I think that Juan is going to write  
19 us a letter or a letter for Bob Butler confirming that  
20 we were squared away on that one; is that sufficient?

21 MR. JIMENEZ: I think you said mid-March. TEA --

22 MR. BUTLER: The TEA?

23 MR. JIMENEZ: -- has not been reviewed by Aaron  
24 Yue.

25 MR. CASS: Aaron sent out a letter that we got

1 just a week ago. I don't know what it was.

2 MR. BUTLER: You need a letter from me to him to  
3 expedite it?

4 MR. CASS: Yes.

5 MR. BUTLER: Okay. I'll do it when I get back.

6 MR. REID: So you don't need anything from EPA?

7 MR. JIMENEZ: Yes, you do.

8 MR. BUTLER: I haven't got anything.

9 MR. REID: James? James?

10 MR. BUTLER: On that railroad spur he was going to  
11 fax -- he responded to F and G as well as -- so when I  
12 get back to the office, I should be able to pick up the  
13 concurrences he had on it.

14 MR. REID: You have some new comments on F and G  
15 that we didn't receive?

16 MR. CHANG: No. That was based on that last  
17 conference call we had. That was the only comments.  
18 We sent out what -- what we talked about. So Bob was  
19 going to go back to his office, be sure he got a copy.  
20 And if he didn't, I would fax him another copy of the  
21 these comments.

22 MR. BUTLER: I understand you addressed the  
23 railroad spur in our letter.

24 MR. CHANG: Has -- always addressed in all your  
25 FOSTs. We want to make sure the language is

1 standard -- is consistent throughout your FOST.

2 MR. REID: Your attorney was going to --

3 MR. CHANG: We did. And we gave them that  
4 language.

5 MR. REID: I didn't get that yet. I didn't get  
6 that letter.

7 MR. CHANG: See that Bob Sommer got it. We faxed  
8 it to Bob Sommer.

9 MR. REID: Okay.

10 MR. JIMENEZ: Do you need anything from us on F  
11 and G, or did Ron take care of that?

12 MR. BUTLER: I believe I have your concurrences, F  
13 and G.

14 MR. SOMMER: I thought I gave you the fax that  
15 came in from Division 9.

16 MR. REID: I'd -- I have that letter, but it was  
17 dated about the 9th of February. It referred to F and  
18 G.

19 MR. SOMMER: Yeah. Is that the language you were  
20 talking about, James?

21 MR. REID: Do you have that letter I gave you  
22 yesterday?

23 MR. CHANG: I believe that is the first letter you  
24 -- conference call that you weren't in on, just Cathy  
25 and Harold. That's the conference call I'm referring

1 to when I sent out some comments.

2 MR. REID: I haven't seen any on Bob's desk after  
3 that first letter.

4 MR. CHANG: Okay. So I'll tell my -- I'll tell my  
5 Admin staff to resend that out to you guys.

6 MR. REID: Okay. And, Jay, I am giving James  
7 his -- and Juan -- your copies of the FOST and SEBS for  
8 review.

9 MR. JIMENEZ: Harold, why don't you put a due  
10 dates.

11 MR. REID: Well, what's reasonable? Two weeks?

12 MR. JIMENEZ: Aaron?

13 MR. REID: Okay. Okay. Let us know on that.

14 MR. CASS: Did you say, just giving me a copy?

15 MR. REID: I wasn't. If you want one -- I  
16 normally don't give -- I'm sorry. I meant, Juan. If I  
17 said Jay, I meant Juan. Okay. So that is -- we'll  
18 have our review of J in progress.

19 MR. CHANG: Before we move on. Once I have a  
20 chance to get together with my base reuse specialist  
21 and my attorney -- keep in mind those guys are  
22 attorneys, and they don't have schedules so it's going  
23 to be hard for me get them together. But once I get  
24 them together and review the -- I think -- think going  
25 at this, hold another conference call, I thought we

1 were able to hit the big issues real fast. And, Juan,  
2 you might want to join us --

3 MR. JIMENEZ: I would love to join you.

4 MR. CHANG: -- after both of the attorneys have  
5 reviewed the J FOST.

6 MR. REID: That went pretty good. And get Aaron  
7 on the line.

8 MR. BUTLER: I'm starting to review it now.

9 MR. REID: Okay. The next item we have -- the  
10 Sumiden parcel is 13 and a half acres, which is going  
11 to be purchased by the Sumiden company. It's the  
12 Japanese company manufacturing prestressed wire. And  
13 we've already sent copies to the regulator for  
14 preliminary review, and they responded very quickly.  
15 And we've gotten their comments back on that. And I've  
16 given a copy today to Mr. Butler for his official BCA  
17 review. So that one is coming on real good. There's  
18 no significant problems in that area that I see. So  
19 far it's a fairly clean area.

20 MR. CASS: Where is that parcel?

21 MR. COX: Just outside the door here.

22 MR. REID: Runs from here to Phantom and along  
23 Sabre Boulevard.

24 MR. JIMENEZ: We told -- we need to expedite, and  
25 it happened.

1 MR. BUTLER: You gave them a copy?

2 MR. REID: They've already responded.

3 MR. BUTLER: Did they have any comments?

4 MR. REID: Yes. We discussed that in our  
5 conference call that we've gotten comment from them  
6 very promptly. They gave us really good turnaround on  
7 that.

8 MR. SOMMER: Bob, we need to have the same kind of  
9 cooperation out of our own people.

10 MR. BUTLER: I do the best I can.

11 MR. SOMMER: This is --

12 MR. BUTLER: You can count on me. I'll review it  
13 here today. But as far as my own office, that will be  
14 another challenge but I'll --

15 MR. SOMMER: You're our contact in Washington. I  
16 need you to build a fire under the real estate guys and  
17 the legal.

18 MR. BUTLER: If there's no significant regulatory  
19 comments, I think we're way ahead of the game on this.  
20 I think I can expedite that. Is there any significant  
21 issues identified on the Sumiden property?

22 MR. JIMENEZ: I think where the EA -- you always  
23 have a EA when you have a FOST and --

24 MR. BUTLER: No. That -- what's that for?

25 MR. JIMENEZ: I think that is Parcel J.

1 MR. REID: No.

2 MR. BUTLER: No. There's the EA on that. The EA  
3 is only the railroad spur. That railroad spur that is  
4 outside the basewide.

5 MR. COX: Because that wasn't included basewide,  
6 EB is.

7 MR. REID: Okay for the Sumiden parcel?

8 MR. JIMENEZ: What do you need?

9 MR. REID: We're going to get the comment from our  
10 BCA office.

11 MR. BUTLER: Do we have regulatory comments on it?

12 MR. REID: I've gotten -- there's --

13 MR. BUTLER: No significant issues?

14 MR. REID: I can give you a copy of those today.  
15 And when we get your comments back, we'll go back to  
16 the regulators for final review -- final review.

17 MR. JIMENEZ: How long will that take? When can  
18 we expect it? Two weeks? Three weeks?

19 MR. BUTLER: I'm going to review what I have here  
20 today.

21 MR. REID: That's not going to be official. You  
22 have to get it passed by all your other people.

23 MR. JIMENEZ: It can be official; right?

24 MR. BUTLER: If it's pretty clean, I think, you  
25 know, if your -- if you don't have any significant

1 comments, or if you have very few, or if you even had  
2 concurrent; I could probably get it through pretty  
3 quick, if it really is a clean parcel and there is no  
4 significant issues.

5 MR. REID: There was a comment about the lead  
6 paint. And there is just some old World War II  
7 dormitories -- and for everybody's information, those  
8 dormitories had asbestos shingles since World War II  
9 with a permanent finish. They were not painted until  
10 about 1980 for the first time, and that was after the  
11 lead was removed from the paint. So I don't expect any  
12 problem with the lead-based paint. There's no housing  
13 in that area.

14 MR. JIMENEZ: What kind?

15 MR. COX: Transite shingle.

16 MR. REID: The old two-story dormitory had  
17 transite shingles.

18 MR. COX: They're west of here. And they are  
19 being torn down.

20 MR. REID: Yes. Yes. Another thing, Victorville  
21 has agreed to remove the buildings at their expense so  
22 the buyer does not have to do that.

23 MR. JIMENEZ: When will that be done?

24 MR. COX: It's in process right now.

25 MR. SOMMER: Now.

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1 MR. REID: It started already. So we will have a  
2 clean site by the time FOST are signed.

3 MR. CASS: What are they going to build there.

4 MR. REID: It's a 50,000-square-foot factory to  
5 produce prestressed wire for reinforcing concrete.  
6 About 50 employees. And the objective is sort of to  
7 have this turned over by June.

8 MR. CHANG: So, Harold, you've incorporated our  
9 verbal conference during our conference call into that  
10 document that Bob will be reviewing -- right -- before  
11 it comes back to us?

12 MR. BUTLER: Before I could really expedite it at  
13 Roslyn, any written comments from the regulator --

14 MR. REID: I have given you those. I will give  
15 you those today.

16 MR. BUTLER: Or written concurrence, if that's  
17 possible.

18 MR. REID: No. They've given preliminary  
19 comments.

20 MR. BUTLER: It looks like you've closed the gap,  
21 and I think you understand.

22 MR. REID: Okay. The next parcel --

23 MR. JIMENEZ: End of June for transfer or earlier  
24 than June?

25 MR. REID: I don't know. It's during June. Just

1 as soon as everything is completed. I think demolition  
2 will have a factor on that date.

3 Okay. Next item is, we're working on Parcel  
4 B which is to the west side of the base.

5 MR. CASS: I'm just curious. Is that parcel being  
6 sold in deed?

7 MR. SOMMER: Sumiden.

8 MR. REID: Sumiden. Yes.

9 MR. CASS: So the deed restrictions, the  
10 monitoring wells, and groundwater et cetera will be  
11 with this parcel. And that's what we'd asked to take a  
12 look at the actual language -- right -- to my  
13 understanding, know where -- the whole base has just  
14 been transferred with deed restrictions in place;  
15 correct? This will be the first?

16 MR. SOMMER: No. The chapel was transferred with  
17 some deed restrictions.

18 MR. CASS: Okay. A long time ago we had just  
19 asked to take a look to the language you are using. I  
20 don't have a lot of say, but we have requested to board  
21 members to know what the language contains. Does that  
22 language have to get approved by State or EPA?

23 MR. JIMENEZ: Both. And if it was transferred, we  
24 must have approved it; right, James?

25 MR. SOMMER: Yeah. The chapel was. It was

1 approved.

2 MR. CASS: The language that's in the deed  
3 registered with the County registered deeds?

4 MR. SOMMER: No.

5 MR. CASS: Okay. So for that part, as soon as the  
6 language is developed, which probably it --

7 MR. BUTLER: We do see deed --

8 MR. SOMMER: I'm sure the language hasn't been  
9 developed, but I'm just now doing the FOST. Real  
10 estate has to develop the deed, I don't have any  
11 monitoring wells on the property, that I know of; do  
12 we?

13 MR. CASS: Well, we have the OU-2 issue that is  
14 right there. I don't know where the parcel is, but it  
15 sounds like it's right south of the flight line.

16 MR. REID: I think that that --

17 MR. CASS: It's in the area.

18 MR. REID: -- is outside the OU-2 plume.

19 MR. CASS: And -- and it's head pad OT-69 is  
20 headed to the next 40 years, naturally attenuate that  
21 plume. Just for the record. I would like to see the  
22 language when it's ready; okay?

23 MR. BUTLER: Okay. We see the deeds and the FOST  
24 as two different deeds.

25 MR. REID: Actually a copy of the environmental

1 language; okay?

2 MR. CASS: That will be sufficient. The DTSC and  
3 EPA have been reviewing the language for FOST and  
4 transfer documents. But I was talking the actual deeds  
5 restrictions.

6 MR. SOMMER: Okay. What do you want to include,  
7 the deed restrictions? Obviously, no well drill --

8 MR. REID: His question is: Jay, you have some  
9 specific things you want included in the deed  
10 restrictions?

11 MR. CASS: Well, there are specific things that  
12 will have to be included. I would just like to look at  
13 the draft language they're using.

14 MR. SOMMER: We need to tell the people that are  
15 going to draft the language. My attorneys don't know  
16 anything about the base. So whatever they -- the draft  
17 is going to be based on what we tell them to do, and  
18 that's what I'm trying to bounce ideas off. Obviously,  
19 we don't -- we won't allow the -- the drilling in the  
20 area until the parcel is declared clean, until the  
21 entire base is closed; right?

22 MR. BUTLER: If you have a specific language you  
23 want to include in the deed, we'll be happy to do that.

24 MR. CASS: Last December Mr. Aaron Yue was there.  
25 He basically went over in bullet fashion those items.

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1 So that will be at this --

2 MR. JIMENEZ: At that time, that last meeting,  
3 Aaron provided a laundry list of what the restrictions  
4 and deed notices look like. Those should be in the  
5 meeting minutes. If you give us a call --

6 MR. CASS: I think EPA has developed a more  
7 generic list of actual language to be included. Have I  
8 seen that, James, from EPA? We don't have a specific  
9 list, but we've just asked to take a look at it and see  
10 what the wording says.

11 MR. BUTLER: Do you have a copy of that here,  
12 Harold?

13 MR. REID: No, I don't have anything from Aaron.

14 MR. CASS: No. It wasn't something he handed out.  
15 He sat here, and we actually discussed OU-3 parcel  
16 here, parcel here, landfill here, the types of  
17 restrictions that we need to be included in the deed,  
18 access, drilling, cover, maintenance, whatever.

19 MR. REID: Well, I have the list here in  
20 attachment to the FOST of two items that need deed  
21 restrictions, but we were hoping that you would have  
22 some verbiage. I got point form here. These are  
23 items, right here, that is a part of the FOST.

24 MR. BUTLER: That's not the deed language.

25 MR. REID: That's right. That's not the deed

1 language. Do you have, Jay, any deed language?

2 MR. CASS: I see things come across my desk that  
3 we didn't develop, that may be from DOD or military.

4 MR. REID: Maybe I can ask Aaron.

5 MR. JIMENEZ: Call Aaron. Call me, and I'll talk  
6 to Aaron.

7 MR. BUTLER: Yeah. I'll ask for it.

8 MR. REID: Okay. Well, I think that's -- oh, we  
9 need -- all we need to do on the FOST right now. We  
10 will have B, D, and then A, and C in the next several  
11 months.

12 MR. SOMMER: Do you have any targets dates on  
13 those?

14 MR. REID: Not -- I have some dates but --

15 MR. BUTLER: We had the -- I think we wanted them  
16 in May or something like that.

17 MR. REID: -- something like May and June. But  
18 they're kind of iffy.

19 MR. SOMMER: Can we give those to regulator, and  
20 can we give that list to them just as kind of a target  
21 not --

22 MR. REID: Sure.

23 MR. SOMMER: You know these things are killing  
24 these guys. You know they just all of a sudden one day  
25 there's two-inch document falls on their desk and ask

1 them to give a 30-second turnaround. We have a good  
2 idea, roughly a couple -- three weeks, a month, where  
3 they are getting there. At least they can plan their  
4 workload a little bit.

5 MR. BUTLER: You have the FOST schedule?

6 MR. REID: I have the schedule. I'll have -- I've  
7 given it to the regulators. Anything else, Bob?

8 MR. SOMMER: Now they will see these things  
9 probably twice, once for -- we give a pre-draft out.  
10 It comes out of our office just for BCT coordination.  
11 You know, they can give all the comments they want.  
12 The final goes out on them, should have all those  
13 comments incorporated in it.

14 MR. REID: I guess that is my other issues.

15 MR. JIMENEZ: If everybody has signed that sign-in  
16 sheet?

17 MR. REID: Everybody signed the sign-in sheet?

18 MR. SOMMER: I don't have anything from this end.

19 MR. JIMENEZ: There's two people over there.

20 MR. COX: Oh, we need to sign the sheet.

21 MR. REID: I guess that's it, Bob.

22 MR. SOMMER: Okay. Harold, I won't be in until  
23 noon tomorrow. I've got a dentist appointment in the  
24 morning, and I doubt that I see you until just about  
25 noon.

1 MR. REID: Okay. See you then. Take care.

2 (Meeting adjourned at 10:54 a.m.)

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**GEORGE AIR FORCE BASE**  
**MEETING AGENDAS**

**OU1 and RPM MEETING**

**23-24 Feb 98 at 0930 Hours**

**I. OU-1**

1. *Geology Overview*
2. *Post ROD Document Requirements*
3. *Current Status*

**II. RPM**

1. *OU-3 ROD Status* Jay
2. *UST Case Closure BX Service Station* Jay
3. *DSMOA Apdx F* Jay
4. *OU-2 Updates* Larry
  - a. *Status*
  - b. *Documents*

***Note: We currently have 2 days scheduled but if nothing is added to the agenda and the meeting runs smoothly we should be able to complete it in 1 day.***

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**DEPARTMENT OF THE AIR FORCE**  
**AFBCA/DD, Bldg 321**  
**13436 Sabre Blvd., Box 2**  
**GEORGE AFB CA 92394**

*06-2 Technical Mtg*  
*24 Feb 98*

**MEETING SIGN-IN SHEET**

NAME	ORGANIZATION	PHONE #	FAX #
Bob Sommer	AFBCA/6AFB	(760) 246 5360	
JUAN M. Jimenez	DTSC	(562) 590 4919	
Ichiel Cass	RWQCB	(760) 241-7408/9380	
JAMES CHANG	EPA	415/744-2158/2180	
Cameron Winey	Montgomery W	510-975-3450/3412	
Catherine Ryan	AFBCA/6AFB	(760) 246 - 5360	
RENE G. HEFNER	AFCEE/Hydrogeologist	210 536 4763	
Joe D. URRUTIA	HQAFCEE/ERB	(214) 536-4004/3609	
Robert Butler	AFBCA/DD	703 696 5543/8833	
HAROLD REID	AFBCA/DD	760-246-5360 - 3315	
Alan Driscoll	HydroGeologists	703-736-4522 471-4180	
Carvin Corp	Boss - Allen	(909) 656-1940	
Stephen Nioa	URS	(714) 556-9260	



**EPA**

San Joaquin  
Regional Water  
Quality Control  
Board

Victorville Office

15428 Civic Drive,  
Suite 100  
Victorville, CA 92392  
(760) 241-6583  
FAX (760) 241-7308

November 25, 1997

1235 76

ref: George AFB



Pete Wilson  
Governor

**RECEIVED**  
NOV 24 1997

Bob Sommer  
Department of the Air Force  
AFBCA/OL-C, Bldg. 321  
13436 Sabre Blvd  
Victorville CA 92394

Dear Mr. Sommer:

**OPERABLE UNIT ONE (OU-1) TRICHLOROETHYLENE (TCE)  
PLUME CLEANUP STATUS, GEORGE AFB, VICTORVILLE, SAN  
BERNARDINO COUNTY**

On Wednesday, October 8, 1997 California Regional Water Quality Control Board staff (Board staff) attended a technical meeting to discuss the progress made by the Air Force in cleaning up the TCE polluted groundwater that is migrating towards the Mojave river. The meeting discussed the status of the fully operating treatment system in meeting the objectives specified in the Record of Decision (ROD), signed in 1994. The Phase I became operational in 1992 and the Phase II became operational in 1996.

**OU-1 ROD Objectives**

The objectives specified in the ROD are:

- prevent exposure,
- reduce ground water concentrations to below the maximum contaminant level of 5 ug/l,
- treat pumped ground water to less than 2.5 ug/l (with a goal of non-detectable), and
- reduce or eliminate the potential for further plume migration (e.g. plume containment).

To accomplish this, a total of 18 extraction wells were installed. Extracted water is treated in two air stripping towers. Treated effluent is recharged into the upper aquifer, and deed restrictions are to be placed on affected property. The project is expected to continue for 30 years.

**Operational Status**

Currently, the system is pumping about 750 gallons per minute (gpm) or about 1 million gallons per day (gpd). During the second quarter, 1997, the system ran approximately 55% of the time. The Air Force has completed a number of extensive maintenance upgrades and they expect that system performance (up-time) will improve. To date, approximately 90 lbs mass of TCE have been removed by pumping over 500 million gallons of water. The approximate reported annual system operating cost is between \$350,000 and \$500,000. During the second quarter, 1997 the system removed approximately 5 lbs mass.

Mr. Sommer     George AFB OU-1 TCE Treatment System Status  
November 25, 1997  
Page 2

In 1994, there was an estimated 1,000 pounds mass of TCE in the aquifer, divided into about 900 lbs in the low-permeability "upper" aquifer and 100 lbs in the high-permeability "lower" aquifer. During the last sampling event (July 1997), the highest concentration of TCE detected in the upper aquifer is 180 ug/l and in the lower aquifer is 15 ug/l. The TCE plume "hot-spot" is in the upper aquifer and the lower aquifer contains more dilute concentrations. The upper aquifer is in hydraulic continuity with the lower aquifer at the location where the upper aquitard terminates near the eastern edge of the upper aquifer allowing TCE to enter the lower aquifer.

### System Performance

The average influent TCE concentration to the treatment system is 10 ug/l, quite dilute. This is because the largest volume of water is being extracted from the lower aquifer. Effluent samples are non-detectable, demonstrating that the treatment system is effective. There is a decreasing trend in TCE concentrations in groundwater, indicating that mass reductions are occurring. Monitoring wells located outside the plume are non-detectable, demonstrating that hydraulic control is nearly achieved. Based on contours of TCE concentrations in the lower aquifer, the lower aquifer plume appears to be shrinking.

The lower aquifer is very transmissive and the TCE is only recently affecting it because adsorption holds TCE in the upper, tighter aquifer. However, TCE is migrating down into the lower aquifer. To illustrate the differences in the aquifer transmissivities, the average pumping rate from all the upper aquifer wells is 11.2 gpm and the average pumping rate from all the lower aquifer wells is 100 gpm. These figures are for the second quarter, 1997 and include the fact that the system was operational only 55% of the time. Nevertheless, the lower aquifer yields a very high amount of water with extremely low concentrations of TCE.

### Regulatory Concerns

Based upon the meeting, Board staff have the following regulatory concerns about the OU-1 cleanup status.

1. *Elevation and Concentration Data Gaps* - There are areas within the lower aquifer plume in which there is insufficient data to demonstrate whether the plume is fully contained. These areas are a) east of EW-8, between EW-16 and EW-17, b) east and west of EW-14, and c) east of EW-12 between EW-17 and EW-18 as shown on the attached map. The consultant, Montgomery Watson has prepared an unsupported simulated capture zone analysis showing expected flowlines. As discussed during the meeting, some additional data will be available based on the October 1997 ground water sampling event. Regardless, the ground water elevation and concentration data gaps must be addressed in order to demonstrate that the plume is fully contained. This will require the installation of additional

monitoring wells to demonstrate that the plume is actually shrinking. To support the contention of a "shrinking" plume in the lower aquifer, it is necessary to demonstrate that data is collected in the right place. This issue must be addressed and agreed upon in a followup to the October 1997, technical meeting.


2. ***Extraction and Percolation System Efficiency*** - The US EPA has reviewed the OU-1 technical data and concluded that the extraction system is inefficient. See the US EPA letter dated November 7, 1997 and the URS-Greiner comments attached to that letter. US EPA recommends that additional extraction and monitoring wells be placed in the areas of high TCE mass in the upper and deep, upper aquifer such as near wells NZ-34 and NZ-35. Removal of TCE in these areas will more effectively remove mass before it migrates into the lower aquifer, requiring the need to pump excessive amounts of water. Board staff understand that TCE mass reductions from the upper aquifer must be weighed against the ability to physically extract sufficient amounts water from the upper water.
3. ***Computer Model Validity*** - Board staff are concerned that the affects of treated water percolated into the upper aquifer from the new percolation ponds is undefined. At this time the location of percolating water is unknown. Recent data indicate the percolating water may be moving southwards, instead of northwards as expected. If so, the Air Force must indicate what is the extraction system computer model validity if percolating water does not behave as anticipated. Issues such as spreading of the plume, creation of new plumes, and obtaining complete capture in the existing extraction system must be addressed. The current projection of a 30-year cleanup time is based upon this computer model.
4. ***Decrease Pumping in Clean Areas*** - Because TCE concentrations are dilute in the lower aquifer, and in some extraction wells below the MCL, regulators have recommended that the Air Force evaluate, propose and substantiate alternative options to lower extraction rates in the lower aquifer. This should be completed in advance of the upcoming 5-year ROD review (due March 1999). The State recommends that this requirement be completed within 90 days, or by February 1998. The Air Force should evaluate relaxing plume containment in the lower aquifer and naturally attenuating low concentrations of TCE. The evaluation should consider cost, risk, liability, effects on downstream users, and compliance with federal and state regulatory criteria. Of particular concern to Board staff is compliance with State Board Resolution 68-16. Board believe that an evaluation may support allowing some degradation in the lower aquifer if mass reduction efforts are focused on the upper and deep upper aquifers. In this case, "sentry" wells at pre-determined points are needed to ensure that the plume migration does not move beyond a certain point.

Mr. Sommer      George AFB OU-1 TCE Treatment System Status  
November 24, 1997  
Page 4

5. *Deed Restrictions* - To my knowledge, no deed restrictions have been placed on Air Force parcels as specified in the OU-1 ROD. Please provide the State with any specific language that has been adopted, or is proposed, for parcels that are turned over to the local reuse agency. Deed restrictions have long term impacts on parcel use. To the extent possible, it is to the benefit of all concerned that use of deed restrictions be minimized.
6. *Need for Contingencies* - The Air Force should plan for expected weather patterns should the "El Nino" winter rains occur. While it is impossible to predict natural occurrences, it is possible to plan now for what contingencies will be implemented should the plume move due to increased surface recharge or extreme flooding in the Mojave river. Please provide a specific OU-1 contingency plan to the State by February 1998.
7. *Site FT-20 (groundwater) part of OU-1* - As previously discussed, the TCE in groundwater beneath Site FT-20 may, in fact, be remnants of the same OU-1 TCE plume. However, this small plume is headed towards the Mojave River and would not be contained by the existing OU-1 extraction system. An additional extraction well should be added in this area, capable of capturing this plume. Please provide plans for this by February 1998.

Board staff request that these issues be considered as the OU-1 extraction, treatment and disposal system is evaluated. If you have any questions please call me at (760) 241-7408.

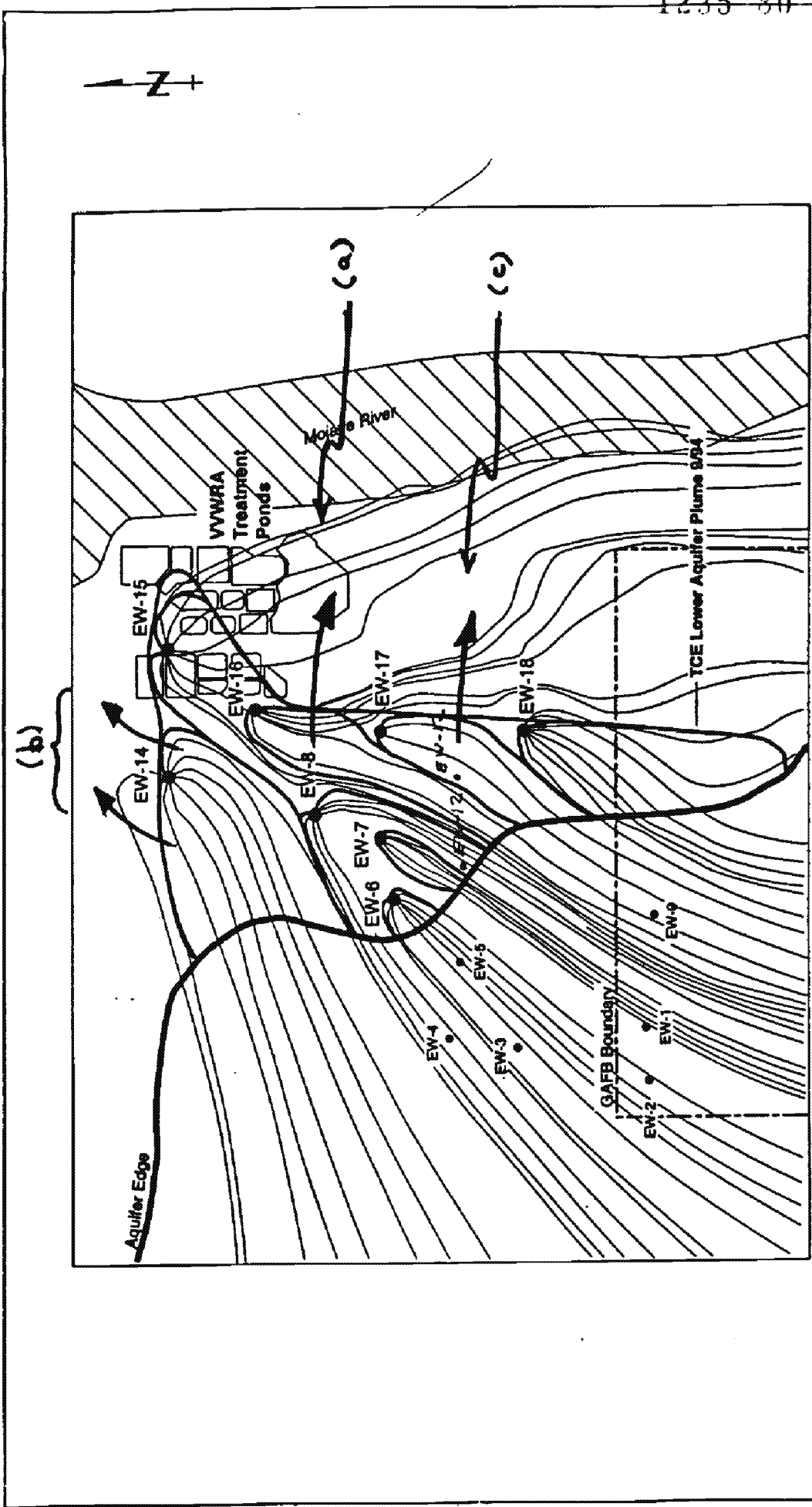
Sincerely,

  
Jehiel Cass  
Associate WRCE

att: Map of simulated capture zones

cc with att: Attached Mailing List

cw7ou1stat.doc



**MONTGOMERY WATSON**  
**GEORGE AIR FORCE BASE**  
**SIMULATED FLOWLINES AND EXTRACTION**  
**WELL CAPTURE ZONES AT OU 1**  
**LOWER AQUIFER**

FIGURE 2-2

***George AFB Mailing List***

Juan Jimenez  
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245 West Broadway Ste 425  
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Chris Maxwell, RWQCB

Jehiel Cass, RWQCB

**FINAL PAGE**

**ADMINISTRATIVE RECORD**

**FINAL PAGE**

**FINAL PAGE**

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